

Title (en)  
ROBOT CONTROL METHOD, ROBOT, AND PROGRAM

Title (de)  
ROBOTERSTEUERUNGSVERFAHREN, ROBOTER UND PROGRAMM

Title (fr)  
PROCÉDÉ DE COMMANDE DE ROBOT, ROBOT ET PROGRAMME

Publication  
**EP 4269037 A1 20231101 (EN)**

Application  
**EP 21910621 A 20211217**

Priority  
• JP 2020214232 A 20201223  
• JP 2021194585 A 20211130  
• JP 2021046669 W 20211217

Abstract (en)  
A robot detects, through a sensor, the location and movement direction of a user and an object near the user, sets a nearby ground area in front at the feet of the user according to the detected location and movement direction of the user, controls an illumination device installed in the robot to irradiate the nearby ground area with light while driving at least one pair of legs or wheels of the robot to cause the robot to accompany the user, specifies the type and the location of the detected object, and if the object is a dangerous object and is located ahead of the user, controls the illumination device to irradiate a danger area including at least a portion of the dangerous object with light in addition to irradiating the nearby ground area with light.

IPC 8 full level  
**B25J 5/00** (2006.01); **B25J 9/22** (2006.01); **B25J 13/00** (2006.01); **G05D 1/02** (2020.01); **G08B 21/02** (2006.01); **G08B 25/04** (2006.01); **H04M 11/00** (2006.01)

CPC (source: EP US)  
**B25J 5/00** (2013.01 - EP); **B25J 9/1656** (2013.01 - EP); **B25J 13/00** (2013.01 - EP); **G05D 1/0094** (2024.01 - EP US); **G05D 1/021** (2024.01 - US); **G05D 1/0214** (2024.01 - EP); **G05D 1/689** (2024.01 - US); **G05D 1/69** (2024.01 - US); **G05D 1/692** (2024.01 - US); **G08B 21/02** (2013.01 - EP); **G08B 25/04** (2013.01 - EP); **H04M 11/00** (2013.01 - EP); **B62D 57/032** (2013.01 - US)

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**US 11906966 B2 20240220**; **US 2023062175 A1 20230302**; CN 115427910 A 20221202; CN 115427910 B 20240315; CN 115877778 A 20230331; CN 115877778 B 20231124; CN 118003299 A 20240510; EP 4269037 A1 20231101; JP 2022100360 A 20220705; JP 2022132672 A 20220909; JP 7117563 B2 20220815; JP 7117650 B1 20220815; JP WO2022138475 A1 20220630; US 11886190 B2 20240130; US 2023176578 A1 20230608; US 2024142997 A1 20240502; WO 2022138475 A1 20220630

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**US 202218048464 A 20221021**; CN 202180030300 A 20211217; CN 202310086340 A 20211217; CN 202410311699 A 20211217; EP 21910621 A 20211217; JP 2021046669 W 20211217; JP 2022068735 A 20220419; JP 2022100373 A 20220622; JP 2022522064 A 20211217; US 202318105638 A 20230203; US 202418405667 A 20240105